



For Information on HAM RADIO or Our Club - CALL 466-HAMS

THE NEXT MRAC MEETING

Date: **Thursday - March 31, 1993**

Time: **7:30 P.M.**

Place: **Wauwatosa Savings and Loan at 75th and State in Wauwatosa**

Program: **ARRL video "At Any Time"**

Also a Raffle of some electronics goodies

April Meeting: **Thursday - April 28, 1994**

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FROM THE PRESIDENT'S DESK

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The February meeting was great. We had something for everyone. Our Problem is how do we stay on track and/or improve it? The Board is always looking for input so, if you have any ideas please let us know.

Some February Notes:

- Our school has started and we now have seven new members. Please remember that it is free to all members - not just new ones.

- Our nominating committee is underway. We should have a list of candidates for our election in May.

- The Breakfast Club now has a normal attendance of 15 to 20 each Saturday morning. Maxim's now sets up a long table for us. If it gets any bigger we will have to use our HT's (and maybe the repeater) to talk to everyone.

Thanks for all the help. It is fun when a lot of people get involved.

73

Ed Wille

Ed - W9PWG



**75
YEARS**

of
Continuous
Club Activity!

W9RH

CLUB CALL

MAR - 1994

CLUB OFFICERS:

President:	W9PWG
Ed Wille	461-5961
1st VP:	W9VQD
Travis Baird	352-9642
2nd VP:	W9UVV
Roger Zaun	242-4931
Secretary:	W9NZF
Fred Linn	377-3280
Treasurer:	KA9ONQ
Orv Stewart	527-2663
Board Chairman	WA9RDI
Ted Stiller	871-7486
Directors:	
Paul Boese	KB9FBM 466-0697
Pancho Doneis	KA9OFA 344-4694
Tom Fuszard	KF9PU 321-5845
Bill Jones	KF9FA 781-4565
Catherine Kedney	KA9MWT 774-2114
Jack Krause	W9JK 774-6999
Joe Rayome	KE9LL 463-7668
Editor	
Pancho Doneis	KA9OFA 344-4694
Circulation/Roster	
Jerry Thompson	WA9SFH 354-6943

Use Our
W9RH Repeater
147.045 MHz + offset

MILWAUKEE AREA NET INFORMATION

DAY	TIME	MHz	ACTIVITY
DAILY	6-8 AM	14.290	Wisconsin/Florida Net (SSB)
MON-FRI	8:30 AM	3.965	After Breakfast Club (SSB)
MON	8:00 PM	146.445	Emergency Net
MON	9:00 PM	146.670	ARES Net (Milwaukee-Waukesha)
MON	9:00 PM	50.160	6 Mtr. General Net
TUE	7:00 PM	442.200	General Racine N9OEZ rep. General
TUE	8:00 PM	7.035	A.F.A.R. Net (CW)
WED	8:00 PM	28.365	10-10 International (Milwaukee Ch.) (SSB)
THU	9:00 PM	50.160	6 Mtr. General Interest Net
THU	9:00 PM	146.910	Computer Net
FRI	8:45 PM	28.400	W9RH 10 meter MRAC Station Net(SSB)
FRI	9:15 PM	147.045	W9RH 2 mtr net following the 10 mtr net
SAT	9:00 PM	146.910	Saturday Nite Fun net
SUN	8:00 PM	28.365	10-10 International (Milwaukee Ch.) (SSB)
SUN	8:00 PM	146.910	Information Net
SUN	8:30AM	3.985	QCWA - (Chptr. 55) (SSB)
SUN	9:00 PM	146.910	Swap Net
SUN	10:00 AM	443.800	FM-38 Link to 146.88 Baraboo SWAP Net

The 2 meter frequencies are -600 khz offset FM repeaters. FM38 is +5 Mhz offset, tone 114.8 The 10 meter frequencies are upper sideband (USB). If there are additions, changes, or corrections to this list, please contact; Pancho KA90FA. 344-4694 or call 466-HAMS.

EDITOR'S NOTES

It looks like spring is just around the corner -- time to start thinking about antennas, Fox hunts, R/C airplanes and boats, bicycle mobiling, Field Day plans, etc.

Our Club is planning to have a special event station set up in August in The old Cedarburg train depot commemorating our 75th year of continuous Ham activity. We are also thinking of having a Field Day site (although the site hasn't been chosen yet). Please keep these events in mind because we sure could use some help in setting up manning the station (operation, logging, etc.), cooking and finally cleanup at the end of the event. If you have no previous experience this is a fun way to get it. You won't find a better bunch of people to learn with and from (about the operation, etc. of a Ham station). If you are a licensed, Ham WE NEED YOU!

We also have an election coming up. Think about who you would like to preside at our meetings and fill the other open positions and let the Nominating Committee know your thoughts on this subject.

Also remember we could use more articles and news for the Hamateur Chatter. Without news we have no newsletter.

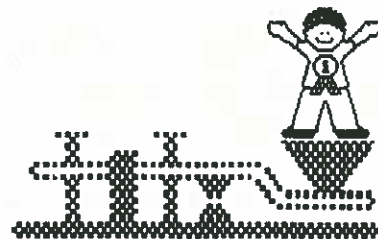
Deadline for any particular issue is the first of the month. Our meetings are held on the last Thursday of the month.

We also welcome any comments, additions, corrections, etc.

73's

Pancho

Pancho - KA90FA



FCC HAM RADIO EXAMS

Wednesday Exams

All Grades MRAC VEC *

Third Wed. of each month at 6:30 pm

Village at Manor Park (was Methodist Manor)

3023 S. 84th St.

Milwaukee, WI

Walk-ins are welcome, but preregistration is requested if possible. To register in advance, send a post card on which you have printed the grade of license for which you are applying, your name, address and telephone number to:

c/o Jack Krause-W9JK
1737 N. 116th St.
Wauwatosa, WI 53226

c/o Les Peterson - W9TCV
9741 W. Howard
Greenfield, WI 53228

For more information call:

466-HAMS

Saturday Exams *

Last Saturday of Each Month

at 8:30 am

at Wauwatosa S&L

7500 W. State St. Wauwatosa

SWAT TEAM Exams *

2nd SAT of each month

at 1:00 pm

Wauwatosa S&L

6560 S. 27th ST.

Oak Creek, WI

Enter the north end of the building,
downstairs and follow the signs.

For more info call:

KB9QL - Norman McNew (414) 764-5998
or AA9DO - Joe Mettry (414) 761-9219.

* Bring your license (if any) and 2 copies
also the same for CSCE's you may have.
Originals will be returned to you.
\$5.00 charge for exams for ALL
classes of license.

OUR PEOPLE

BIRTHDAYS

We have several Club members celebrating birthdays in March and April.

March

Tom Fuszard -KF9PU
Fredrick Gray -N9MTT
Jack Krause -W9JK
Harold Mayer -KA9USA
Fred Mikolajewski -KC9WW
Harry Peliska -NW9X
Dick Schlatterer -KA9MTY
Ed Seruga -KE9JJ
Robert Treptow -WB9SMP
Donna Cieszki -N9INT

April

Elmer Ash -W9ESE
Travis Baird -W9VQD
Brooks Blanchard -KE9CR
Ed Bude -K9HJH
Ron Crown -KA9JCP
St Janczak -WD9JKZ
John Korns -W0USL
James Ott -W9LCD
Terrence Rybacki -N9SNB
Michael Sajdowicz -N9RTJ
Joseph Stevens -W9GAH
David Wester -KB9IIG

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HAPPY BIRTHDAY!

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MR.A.C. ROSTER - UPDATE

Front cover: Orv Stewart's correct call is KA9ONQ

Mike Buday's call corrected to WA9HIF

Myron W. Hendrickson - KA9MWV's correct phone no. is 461-6096

Add Donald Virlee's new call N9VNT a Tech

Please add this information for:

Charles Ackermann - W9OWH

11848 N. Spring Dale Ct.

Mequon, WI 53092

phone 242-3237

Please add this information to your MRAC Roster

Harold Carpenter - N9VCG

105 Mercury Ct.

Mukwonago, WI 53149

Phone 365-8961

Curtis J. Gammel - N9TBP

8429 W. Lisbon Ave.

Milwaukee WI 53222

Lawrence (Larry) L. Kamitz

3413 E. Allerton Ave.

Guthrie WI 53110

Phone 762-2848

Linda Newman

157 N. 63rd St.

Milwaukee WI 53213

Herbert W. Roebner - WA9UVE

680 Lakeside Rd.

Grafton, WI 53024

Phone 377-3307

Beth Schlesinger

3242 Willowgate Pass

Colgate WI 53017

Phone 1-628-1731

Kathy Schroepfer

2812 W. Howard Ave. #6

Milwaukee WI 53221

Phone 281-3095

Phillip C. Setzer

20179 W. Good Hope Rd. #E-13

Lannon WI 53046

Phone 155-4003

Frank J. Smith - KA9SQP

2577 N. 4th St.

Milwaukee WI 53212

Phone 264-4475

Ronald B. Shabazz

2340 N. 51st St.

Milwaukee, WI 53210

James A. Taylor - WA9GJV

1770 W. Bradley Rd.

Milwaukee, WI 53217

Phone 241-4321 ext.290

John C. Wallace

2119 N. 23rd St.

Milwaukee, WI 53205

ELECTION OF OFFICERS

The MRAC will be electing a new slate of officers this spring. The nominating committee consists of:

Ken Eggert - W9MOT (Chairman)

Dave De Fefeb - WB9BWP

Ed Seruga - KE9JJ

Pancho Doneis - KA9OFA

If you have a desire to see one of your friends go to work as an officer, please nominate that person by contacting one of the above people.

We do need your cooperation and your ideas as we would like to keep our Club growing, not only in numbers, but also in quality and activity.

We do have 75 years under our proverbial belt - let's make it another **75 years or more of growth.**

I'm sure many of you have hidden leadership talents of which even you may not be aware.

Here is your chance to volunteer and be of real service to your fellow Club members, Amateur Radio and the community.

MUG IT UP!

If you have a mug coming for contributing to the Repeater Fund - the will be at the next club meeting. If you cannot be there perhaps you can arrange for a buddy to pick it up.

And ... if you don't have a mug coming - you can get one this way --- by contributing \$25.00 or more to the Repeater Fund.

Make checks out to MR.A.C. and send to:

M. R. A. C.

P.O. Box 25707

Milwaukee, WI 53225

Attention: Orv Stewart - KA9ONQ

REPEATER NEWS

HAMS IN NOBEL COMPANY

A 1993 winner of the Nobel Prize for physics credits much of his success in science to his participation in amateur radio. The winner, Dr. Joseph H. Taylor, K1JT, of Princeton University, said that he developed many of his scientific skills as an amateur radio operator while a student at Moorestown Friends Academy in New Jersey.

Dr. Taylor went on to earn a bachelor's degree from Haverford College and a doctorate in astronomy from Harvard University. He shared the Nobel Prize with Princeton colleague Dr. Russell A. Hulse. The physics prize was granted to the pair of scientists for their study of the gravitational forces exerted by pulsars. The results of their study are said to confirm the predictions of Einstein's General Theory of Relativity.

FEB 1994 Electronics Now magazine.

KA9MXM REVIEWS THE FEBRUARY MEETING

As usual our President Ed Wille - W9PWG started our February 24th meeting on time and it was run very efficiently. Thanks to his ingenuity and the help of M.R.A.C. members, the Club is really humming with activities. So why not come down to the meetings and find out what is going on. I'm sure you will find something of interest.

Ed Wille gave out appreciation awards to deserving individuals, who have really helped him get the Club back on it's feet and helped getting the recognition the Club needs to survive.

If you were not at the last meeting you missed a good one, but I'll try to fill you in on what happened. Despite our cold, windy and snowy winter, attendance has been very encouraging. If you haven't been coming to meetings, it is getting to be that time of the year that the weather should be improving. That is all the more reason to come.

Before the meeting, door prize tickets were sold at the sign up table. Bill Jones - KF9FA was in charge of the ticket drum. The prizes were at the front table. You could take your pick of anything you wanted. There were VHF-UHF splitters, channel filters, old transmitting tubes, transformers, you name it and it probably was on the table.

In addition Roger Zaun - W9UVV contributed some old and some new power and audio transformers and chokes that could be had for the asking.

During our break in the meeting, Ted Stiller, board chairman has taken over temporarily in the kitchen for Emerend Bude - K9HJH, who is recovering from his stay in the hospital. Besides being ribbed about the green wieners left from last summer's Field Day, Ted has done a good job and has taken things in stride. He received such good patronage of his goodies that they ran out of food and had to buy more. How about that!

Our break in the meeting is the pause that refreshes" according to an old expression.

As additional entertainment Ed Wille procured a video from Ten TEC regarding their engineering, designing and manufacturing methods. The company designs and builds quit a few of it's own components. The video was very interesting and informative.

George Pfister - W9IZQ was our speaker. He brought two transmitters and a power supply taken from a "PBY" (Flying Boat). As he mentioned, it was a "PBY" plane that was responsible for discovering the Japanese fleet just after Pearl Harbor. The transmitting equipment was a model GO09 and a very remarkable piece of equipment. It was completely designed by the U.S. Navy radio engineers and put out on bids for manufacture. The engineers used split stator capacitor tuners in addition to roller type inductors not found in earlier or some later equipment. It was geared in such a way that regardless of the frequency tuned to, the "Q" of the tuned circuit remained very high. We have been used to seeing miniaturization in new equipment. The old PBY equipment was large and rugged and it seems as though no thought was made regarding size or weight of components. It's a wonder the plane did not sink. a special effort was made to keep R.F. out of the filament power supplies, as R.F. filters were placed at the base of all tubes.

An amusing thing happened earlier in the meeting. while Ed Wille was using the portable mike he always brings to the meetings, it quit working. So enterprising Ed borrowed a 9 volt battery from Ted Stiller so he could continue the meeting. The 9 volt battery Ted had was from a test meter that he later gave a talk about.

George Philbert - KA9MXM

*Experience is a wonderful thing.
It enables you to recognize a mistake when you make it again.*

Club Meetings

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West Allis Radio Amateur Club

Meets the second Tuesday of each month
at 8:00 p.m.

At St. Peter's Episcopal Church
7929 W. Lincoln Ave.
West Allis, WI

Miller Valley Radio Amateur Club

Tuesday evenings at 6:30 p.m.
at 703 N. 39th St.,

just north of and almost under
the former Wis. Ave. viaduct.

For info contact: Art - WA9AWJ
(found daily on the 145.13 repeater).

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CLUB ACTIVITIES

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W9RH- TEN METER NET

Come on up and join us on W9RH
Ten Meter Net on Friday evenings at
9:00 PM at approximately 28.4 MHZ.
We'd like to meet you there.

CQ Third Tuesday

11:00 am
Skanda House
Hwy 100 & Oklahoma

Y'all come! to the
MRAC HAM BREAKFAST
every Saturday morning
at 8:30 o'clock.

Maxim's Restaurant
9143 W. Appleton Ave.
(corner of 91st St.
and Appleton Ave.
near Timmerman Field)

Prices are reasonable, the food - good,
and the company - excellent.

Friday Evening CQ Food

First Friday of the month Fishery
Quality Inn
Hwy 100 and Bluemound

2nd Friday

Serb Hall at 51st and Oklahoma
Call: Warren - K9IZV
on th 146.91 - offset

for reservations by Noon on that FRI.

Other Fridays

Check in 5:00 pm

Decision & finalization at 6:00pm
and meet at

CQ Food destination at 7:00pm

Other CQ Foods on a random basis
also called on this repeater

"CQ Food" on WA9JDB 146.91 Repeater.

NEWS CONTRIBUTIONS

Articles and information for
the newsletter should be received
by the editor no later than the first
of the month of publication. If re-
ceived after the first of the month,
its inclusion in that month's edition
cannot be guaranteed. Your coop-
eration is appreciated.

Please mail submissions to:

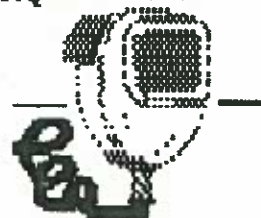
Hamateur Chatter

c/o Pancho Doneis, KA90FA
1958 N. 38th St.
Milwaukee, WI 53208

You may also call me at;
344-4694.

Thanks to our news contributors this month:

AE9G W9PWG and
W9MOT WA9RDI Electronics
KA9ONQ WA9SFH Now magazine



A LEAD-ACID BATTERY IN THE APARTMENT? YES, IT IS POSSIBLE.

Since May 1989, I have been using a motorcycle battery as a convenient power supply for my QRP rig, as well as a backup supply for my Kenwood R-200 receiver, and in general as a 12 volt "UPS" (Uninterruptible Power Supply). The battery is a 12N5-4B motorcycle battery, the smallest I could find, 5 1/2" tall, 5" wide, and 2 1/2" deep, and is rated at 5 Ah (although I have yet to find a rechargeable battery which checks out its announced capacity).

We have all heard the warnings by the "safety-police" about the explosive gases and the corrosive acid. I felt that with proper precautions I should be able to cope with those problems, and now, with the experience of several years, I even feel that I took these warnings too seriously.

The Battery is mounted inside a modified one-gallon plastic bottle (windshield-washer fluid), with venting to the outside of the bottle, and the handle of the bottle tied to a piece of furniture in such a way that the bottle must remain vertical. Every 6 months or so I open the bottle and refill the electrolyte (about 5cc of distilled water per cell, usually), and inspections at those times have shown no corrosion anywhere.

The amount of gas developed in normal operation (charging) consists of a few small bubbles, and one would have to try very hard to collect enough of that

to get any kind of explosive mixture. Normally it develops at such a slow rate that no concentration of hydrogen has a chance to build up anywhere, particularly since hydrogen is difficult to confine.

Charging is done with a small 12 volt regulated supply, adjusted to 14.5 volts, through a series diode, to bring the battery to about 13.8 volts. Every once in a while I turn that on for a day, to top up the charge. The charging current is monitored with a "customized" ammeter/milliammeter/voltmeter, and normally starts at about 1 amp and settles down somewhere around 50 mA.

Inside the bottle is a fuse on the way to two Jones plugs which serve as power receptacles. A pair of voltmeter terminals go directly to the battery terminals, but have a 12 volt pilot light in series. That pilot light does not affect the voltmeter reading to any noticeable degree, but makes it obvious when the voltage measuring terminals have been short-circuited. The purpose of the direct connection is to be able to determine the voltage even if the fuse is blown.

If anyone would like to see my "battery-in-a-bottle" and the internal connections, I can easily bring it along to one of the Club meetings.

Hans Schroeder, AE9G

